

WHAT IS CLAIMED IS:

1. A transmission and/or reception device (26) for mounting on a wheel (14) of a vehicle (10), said device comprising a housing (32), characterized in that it includes an antenna (30) carried on an outside face (34) of said housing and in that the antenna consists of a cable (36) wound around the housing.
2. A device (26) according to claim 1, in which the outside face (34) of the housing is shaped to protect the antenna (30).
3. A device (26) according to any one of claims 1 and 2, in which the housing is shaped to be positioned on the wheel in such a manner that the wound cable (36) forms a solenoid oriented along an ortho-radial axis of said wheel.
4. A device (26) according to any one of claims 1 to 3, in which the outside face of the housing includes grooves (38) suitable for receiving the cable (36).
5. A device (26) according to claim 4, in which at least some of the grooves (38) are shaped to receive the cable fully in such a manner that the cable is protected against possible rubbing by the ridges between said grooves.
6. A device (26) according to any one of claims 4 and 5, in which the grooves (38) are formed by spaces left empty between ribs (40) formed on the outside face of the housing.
7. A device (26) according to any one of claims 1 to 6, including an outer protective film (42) covering the antenna carried by the outside face of the housing.
8. A device (26) according to claim 7, in which the film is made of a heat-shrink plastics material.
9. A device (26) according to any one of claims 1 to 8, comprising an outside protecting layer moulded on the antenna carried by the outside face of the housing.

10. A device (26) according to claim 9, in which the outside protective layer material consists of the material of the housing.
11. A device (26) according to any one of claims 1 to 10, including, in its housing, pressure-measuring means (24) for measuring the pressure inside a tire (16) mounted on the wheel (14) carrying said device.
12. A housing of a transmission and/or reception device which is intended to be mounted to a vehicle wheel, said device including an antenna, the housing being characterized in that it has an outside face shaped to support and protect the antenna and in that the antenna of the device consists of a cable wound around the housing to form a solenoid.
13. A housing according to claim 12, shaped to be positioned on the wheel in such a manner that the wound cable (36) forms a solenoid oriented along an ortho-radial axis of said wheel.
14. A housing according to any one of claims 12 and 13, in which the outside face of the housing includes grooves (38) suitable for receiving the cable (36).
15. A housing according to claim 14, in which at least some of the grooves (38) are shaped to receive the cable fully in such a manner that the cable is protected against possible rubbing by the ridges between said grooves.
16. A device (26) according to any one of claims 14 and 15, in which the grooves (38) are formed by spaces left empty between ribs (40) formed on the outside face of the housing.